Air Training Systems

Live Training

Elbit Systems™
Aerospace

EHUD™

Autonomous Air Combat Maneuvering Instrumentation System

Elbit Systems' EHUD is a "rangeless" and fully autonomous air combat maneuvering instrumentation (AACMI) system. Featuring advanced instrumentation and debriefing capabilities, EHUD ensures an optimum utilization of flight hours and other valuable resources.

EHUD's unique combination of advanced air-to-air and air-to-ground combat training includes features such as real-time kill notification and removal, real-time electronic warfare and weapons delivery simulation, and no-drop weapon scoring. The system supports an unlimited number of live participants networked through Elbit Systems' patented data link protocol.

EHUD has been flying operationally since 1994 and has been delivered to over 17 air forces on four continents. To date, over one million flying hours have been logged by more than 500 airborne pods and over 100 ground debriefing and real-time monitoring stations.

EHUD is comprised of three main units:

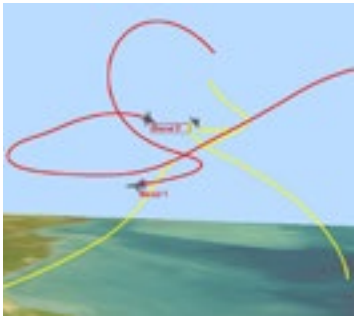
An airborne pod that interfaces with a standard aircraft weapon station and can be easily transferred from aircraft to aircraft

A PC-based debriefing ground station that supports the full training process including exercise preparation, real-time monitoring, and advanced debriefing and after action review (AAR)

An operational real-time tracking and positioning (RTTP) system for accurate real-time ground monitoring and control

Key Benefits

- Rangeless training sorties can be flown anywhere
- Unlimited number of aircraft in training sorties
- No modifications necessary to host aircraft; pod is transferable from aircraft to aircraft
- Patented data link allows aircraft to join or leave the network with no need for ground planning
- Integrated on a wide range of American, European and Russian platforms
- Can be easily upgraded for additional operational capabilities according to customer specifications
- Low life-cycle cost and minimal aircraft certification requirements
- Modular system enabling interoperability and training with additional systems and battle space integration
- Available in fixed and mobile/deployable configurtion



EHUD's Aircraft Legacy

F-104

Tornado

F-5

Hawk

F-15

Jaguar

F-4

AM-X

F-16

Mirage 2000 / F-1

F/A-18

MiG-27

A-4

MiG-29

A-10

MiG-21

Harrier

Su-30

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Key Features

- Real-time air-to-air and air-to-ground weapon delivery simulation
- Real-time kill notification and removal
- No-drop weapon scoring
- Damage assessment simulation
- Counter-measure simulation (chaff/flare/ECM)
- Highly accurate GPS/INS navigation
  - In-flight digital audio safety warnings
    (Mid-air collisions, Ground collisions, Boundary violations, Rule violations)
  - Over 100 flight and safety programmable voice messages
- Auto-adaptive data link network with high update rates and encryption
- Advanced debriefing and AAR stations
- "What-if" hypothesizer tool for advanced debriefing
- Full VTR/DVR synchronization
- Mission rehearsal capabilities using sophisticated computer generated forces
- RTTP system for real-time monitoring, control and data uplink
- User friendly editors for defining system parameters

* EHUD® (Co-owned with IAI)

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